#### Message

**Sent**: 2/14/2019 5:29:16 PM

**Subject**: FW: FYI - LA/TX EO state ambient standards)/screening levels

From: Casso, Ruben

**Sent:** Thursday, April 6, 2017 1:37 PM **To:** Smith, Darcie <Smith.Darcie@epa.gov>

Subject: FYI - LA/TX EO state ambient standards)/screening levels

### **Louisiana Toxic Air Pollutant Ambient Standard**

Ethylene Oxide 1.00 ug/m3 annual average

\*\* Based on unit risk factors and a residual risk of one in ten thousand, or other data determined to be superior by the administrative authority.

Table 51.2 Louisiana Toxic Air Pollutant Ambient Air Standards											
Louis	iana loxic Air Polluti	int Ambient 3									
es a		.ms		Standard [14] (nem3**) (Annual Ave.)							
Compounds Ethylene oxide	75-21-8	Class I	(BE 80.5") (S FROUT AVE.)	1.00							
Formsideityde	50-00-8	I		7.69							
Glycol ethers [6]	109-86-4	II	571.00	7.09							
Hexachloro-1.3-butadiene	87-68-3	II	3//2.00	4.55							
Hexachlosobenzene	118-74-1	111		0.20							
Hexachloroethane	67-72-1	II		25.00							
n-hexane	110-54-3	III	4,190,00	22.03							
Hydrazine	302-01-2	111	7,130.00	0.02							
Hydrochloric scid	7647-01-0	III	180,00	9.02							
Hydrofiuszic acid	7664-39-3	111	61.90								
Hydrogen cyanide	74-90-8	III	260.00								
Hydrogen sulfide	7783-06-4	III	330.00								
Maleic anivoride	108-31-6	III	23.30								
Manganese (and compounds) [1]	7439-96-5	<u> </u>	4.76								
Mescury (and compounds) [1]	7439-97-6	II II	1.19								
Medianol	67-36-1	111	5.240.00								
Methyl ethyl ketone	78-93-3	III	14,000.00								
Methyl isobutyl ketone	108-10-1	331 BI	4,880.00								
Methyl methacrylate	20-62-6	III	9,760.00								
Naphthalene (and Methylnaphthalenes) [12]	91-20-3	II	1.190.00								
Nickel (and compounds) [1]	7440-02-0	I	1,190,00	0.21							
Nickel (ansi compositis) [1] Nickel (refinery dust) [1]	7440-02-8	1		0.42							
Nitric acid	7697-37-2	III	120.00	0.42							
Nitrobenzene	98-95-3	111	119.00								
2-nitropropane	79-46-9	n n	113.00	20.00							
Phenod	108-95-2	II	452,80	25.60							
Photosene	75-44-5	III	9.50								
Phihalic aninviride	85-44-9	<u> </u>	145.00								
Polymucisar aromatic invirocarbons [7]	206-44-0	111	170.00	0.06							
Provincessa aronassa nyerocassons [7] Provincessa aronassa nyerocassons [7]	123-38-6	111	4,290,00	9,50							
Propylene oxide	75-56-9	1 I	7,230,00	27.00							
Pyridine Pyridine	110-86-1	in	381.00	27.03							
Selenium (and compounds) [1]	7782-49-2	II	4.76								
Styrene	100-42-5	<u> </u>	5,070,00								
Sulfuric acid	7664-93-9	ш	23.80								
1.1.2.2 tetrachioroethane	79-34-5	II	aca 140 to	1.70							
Tetrachloro ethylene	127-18-4	II		105.26							
Toluene	108-88-3	III	8,900,00	2, 20, 20, 22, 20							
Tohiene-2,4-diisocyanate [8]	524-84-9	II	0.86								
Toluene-2,6-diisocyanate [8]	91-08-7	II II	0.86								
1.1.1-trichloroethane	71-55-6	ш	45,200.00								
1,1.2-irickloroethane	79-00-5	II	1 mm 1 m	6.25							
Trichloroethylene	79-01-6	11		58.80							
Vinyl acetate	108-05-4	III	830.00	22.00							
Vinvi chloride	75-01-4	I	220.00	1.19							
Viryligene chloride	75-35-4	TI TI		2.00							
Xviene (mixed isomers) [9]	1330-20-7	II	10,300,00	40,000							
Zinc (and compounds) [1] [10] [13]	7440-66-6	UI	119.00								

Explanatory Notes:

Concentrations based on  $\mu g(x)/m^2,$  where x is the elemental form of the metal.

- [2] Includes only 2,3,7,2-tetrachlorodibenzo-p-dioxin (TCDD), and octachlorodibenzo-p-dioxin (OCDD).

  [3] Includes all isomers of chlorinated dibenzo-furans.

  [4] Includes o-, m-, and p-cresol, and mixed isomers.

  [5] Includes 2,4- and 2,6-dimitrotoluene and mixed isomers.

## **Texas screening levels**

TX does not seem to have an air monitoring screening level (AMCV) for EO, but they do have both short-term and longterm effects screening levels (ESLs) for EO

CAS# Phase ST ESLs ug/m3 & ppb LT ESLs ug/m3 & ppb

<sup>\*</sup>Based on one forty-second of the selected occupational exposure level, or other data determined to be superior by the administrative authority.

<sup>\*\*</sup>Based on unit risk factors and a residual risk of one in ten thousand, or other data determined to be superior by the administrative authority.

	75-									1-							1-
ethylene	21-	-	Not			-			OSHA;	Oct-			-			OSHA;	Oct-
oxide	8	-	Defined	20	10	-	Health	Interim	TLV	03	2	1	-	Health	Interim	TLV	03

# What is the difference between AMCV and ESL?

AMCVs and ESLs are screening levels for ambient air set to protect human health and welfare.

**AMCVs** are screening levels used in TCEQ's evaluation of ambient air monitoring data to assess the potential for measured concentrations of specific chemicals to cause health or welfare effects. Health-based AMCVs are safe levels at which exposure is unlikely to result in adverse health effects. Long-term AMCVs are similar to the USEPA's inhalation reference concentrations.

**ESLs** are screening levels used in the TCEQ's air permitting process to establish maximum emission rates that are written into enforceable air permits. Health-based ESLs are set 70 percent lower than the safe level, or AMCV. This additional buffer allows TCEQ to take into account exposure to chemicals from multiple sources in air permit reviews. A more detailed discussion of the differences can be found in Attachment C of the **Uses of ESLs and AMCVs** 

**<u>Document</u>**[10] , or the **<u>Fact Sheet</u>**[11] (which discusses the health-based values used to review air permits and air monitoring data).

#### Louisiana Toxic Air Pollutant Ambient Standard

1.00 ug/m3 annual average

<sup>\*\*</sup> Based on unit risk factors and a residual risk of one in ten thousand, or other data determined to be superior by the administrative authority.